

Section II
Soil and Site Information

Building Site Development
Mellette County, South Dakota

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AlC: Altvan-----	85	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Ba: Badland-----	50	Not rated		Not rated		Not rated	
Imlay-----	30	Somewhat limited Depth to soft bedrock	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	0.04	Cutbanks cave Slope	0.10 0.04	Droughty Slope	1.00 0.04
Bg: Inavale-----	40	Very limited Flooding	1.00	Very limited Cutbanks cave Flooding	1.00 0.80	Very limited Flooding Droughty	1.00 0.12
Munjor-----	40	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Bk: Badland-----	75	Not rated		Not rated		Not rated	
Bp: Blackpipe-----	65	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell	0.50	Cutbanks cave Too clayey	0.10 0.03		
Br: Bigbend-----	90	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bs: Wendte-----	90	Very limited Shrink-swell Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Too clayey Depth to saturated zone Cutbanks cave	0.80 0.50 0.47 0.10	Very limited Flooding	1.00
Bt: Hilmoe-----	95	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Very limited Too clayey	1.00
Bu: Wendte-----	90	Very limited Shrink-swell Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Too clayey Depth to saturated zone Cutbanks cave	0.80 0.50 0.47 0.10	Very limited Flooding Too clayey	1.00 1.00
Bv: Swanboy-----	95	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey Droughty	1.00 0.07
Bw: Wendte-----	90	Very limited Shrink-swell Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Too clayey Depth to saturated zone Cutbanks cave	0.80 0.50 0.47 0.10	Very limited Flooding	1.00
Bx: Hilmoe-----	70	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Not limited	
Minatare-----	20	Very limited Low strength Shrink-swell Frost action Depth to saturated zone	1.00 0.50 0.50 0.19	Very limited Cutbanks cave Depth to saturated zone Depth to dense layer Too clayey	1.00 1.00 0.50 0.03	Very limited Sodium content Depth to saturated zone	1.00 0.19

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CaB: Kirley-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
CaC: Kirley-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
Ce: Cedar Butte-----	70	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey	1.00 0.72	Somewhat limited Droughty	0.04
ClE: Conata-----	60	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Droughty	1.00
		Low strength	1.00	Too clayey	0.50	Slope	1.00
		Slope	1.00	Cutbanks cave	0.10	Too clayey	1.00
Larvie-----	35	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.63	Very limited Too clayey Cutbanks cave Slope Depth to soft bedrock	1.00 1.00 0.63 0.42	Very limited Too clayey Droughty Slope Depth to bedrock	1.00 0.80 0.63 0.42
DsC: Dunday-----	72	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.08
DtB: Anselmo-----	40	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Dunday-----	40	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.08
DuD: Dunday-----	45	Somewhat limited Slope	0.16	Very limited Cutbanks cave Slope	1.00 0.16	Somewhat limited Slope Droughty	0.16 0.08

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Valentine-----	40	Somewhat limited Slope	0.63	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope Droughty	0.63 0.34
DvA: Duroc-----	46	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
Kadoka-----	40	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell Frost action	0.50 0.50	Cutbanks cave	0.10		
DvB: Duroc-----	40	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
Kadoka-----	40	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell Frost action	0.50 0.50	Cutbanks cave	0.10		
EhD: Epping-----	50	Somewhat limited Depth to soft bedrock	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Low strength	0.78	Slope	0.16	Droughty	0.46
		Slope	0.16	Cutbanks cave	0.10	Slope	0.16
Huggins-----	30	Somewhat limited Depth to hard bedrock	0.84	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.84
		Shrink-swell	0.50	Cutbanks cave	1.00	Slope	0.16
		Slope	0.16	Slope	0.16	Droughty	0.01
				Too clayey	0.03		
EhE: Epping-----	55	Very limited Slope	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Low strength	0.78	Cutbanks cave	0.10	Droughty	0.46

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Huggins-----	25	Somewhat limited Depth to hard bedrock Shrink-swell Slope	0.84 0.50 0.37	Very limited Depth to hard bedrock Cutbanks cave Slope Too clayey	1.00 1.00 0.37 0.03	Somewhat limited Depth to bedrock Slope Droughty	0.84 0.37 0.01
Ge: Munjor-----	85	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Gp: Orthents, Gravelly--	100	Very limited Low strength Slope	1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Ha: Hilmoe-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Not limited	
Hc: Interior-----	95	Very limited Flooding Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Flooding Cutbanks cave	0.80 0.10	Very limited Flooding Sodium content	1.00 1.00
Hd: Hilmoe-----	90	Very limited Shrink-swell Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Too clayey Cutbanks cave	0.60 0.28 0.10	Somewhat limited Flooding	0.60
He: Hilmoe-----	95	Very limited Shrink-swell Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Too clayey Cutbanks cave	0.60 0.28 0.10	Somewhat limited Flooding	0.60
HlD: Hisle-----	44	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to soft bedrock Cutbanks cave	0.88 0.42 0.10	Very limited Sodium content Droughty Depth to bedrock	1.00 0.62 0.42

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Orella-----	44	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	0.64	Droughty	1.00
		Low strength	1.00	Cutbanks cave	0.10	Too clayey Sodium content	1.00 1.00
HnB: Huggins-----	90	Somewhat limited Depth to hard bedrock	0.84	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.84
		Shrink-swell	0.50	Cutbanks cave Too clayey	1.00 0.03	Droughty	0.01
HnC: Huggins-----	80	Somewhat limited Depth to hard bedrock	0.84	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.84
		Shrink-swell	0.50	Cutbanks cave Too clayey	1.00 0.03	Droughty	0.01
HpD: Huggins-----	60	Somewhat limited Depth to hard bedrock	0.84	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.84
		Shrink-swell	0.50	Cutbanks cave	1.00	Slope	0.16
		Slope	0.16	Slope Too clayey	0.16 0.03	Droughty	0.01
Epping-----	30	Somewhat limited Depth to soft bedrock	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Low strength	0.78	Slope	0.16	Droughty	0.46
		Slope	0.16	Cutbanks cave	0.10	Slope	0.16
HuA: Huggins-----	60	Somewhat limited Depth to hard bedrock	0.84	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.84
		Shrink-swell	0.50	Cutbanks cave Too clayey	1.00 0.03	Droughty	0.01
Kadoka-----	30	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HuB: Huggins-----	65	Somewhat limited Depth to hard bedrock Shrink-swell	0.84 0.50	Very limited Depth to hard bedrock Cutbanks cave Too clayey	1.00 1.00 0.03	Somewhat limited Depth to bedrock Droughty	0.84 0.01
Kadoka-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Depth to bedrock	0.42
HwB: Huggins-----	40	Somewhat limited Depth to hard bedrock Shrink-swell	0.84 0.50	Very limited Depth to hard bedrock Cutbanks cave Too clayey	1.00 1.00 0.03	Somewhat limited Depth to bedrock Droughty	0.84 0.01
Wortman-----	40	Somewhat limited Low strength	0.78	Somewhat limited Depth to soft bedrock Cutbanks cave Too clayey	0.42 0.10 0.03	Very limited Sodium content Depth to bedrock	1.00 0.42
Ib: Imlay-----	50	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Badland-----	25	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
IcD: Conata-----	40	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	0.50	Droughty	1.00
		Low strength	1.00	Slope	0.37	Too clayey	1.00
		Slope	0.37	Cutbanks cave	0.10	Slope	0.37
Imlay-----	40	Somewhat limited Depth to soft bedrock	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	0.37	Slope	0.37	Droughty	1.00
				Cutbanks cave	0.10	Slope	0.37
IcE: Conata-----	35	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to soft bedrock	1.00	Too clayey	0.50	Droughty	1.00
		Low strength	1.00	Cutbanks cave	0.10	Too clayey	1.00
Imlay-----	35	Very limited Slope	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	0.10	Droughty	1.00
InE: Imlay-----	55	Very limited Depth to soft bedrock	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Droughty	1.00
				Cutbanks cave	0.10	Slope	1.00
Norrest-----	35	Very limited Shrink-swell	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00	Depth to soft bedrock	0.42	Depth to bedrock	0.42
		Slope	1.00	Cutbanks cave	0.10		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ka: Kadoka-----	60	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell Frost action	0.50 0.50	Cutbanks cave	0.10		
Kube-----	20	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
KeD: Keota-----	50	Somewhat limited Slope	0.63	Somewhat limited Slope Depth to soft bedrock Cutbanks cave	0.63 0.42 0.10	Somewhat limited Slope Depth to bedrock Droughty	0.63 0.42 0.42
Epping-----	40	Somewhat limited Depth to soft bedrock Low strength Slope	1.00 0.78 0.63	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 0.63 0.10	Very limited Depth to bedrock Slope Droughty	1.00 0.63 0.46
Kh: Hoven-----	50	Very limited Shrink-swell Depth to saturated zone Low strength Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Ponding Too clayey Cutbanks cave	1.00 1.00 0.28 0.10	Very limited Depth to saturated zone Sodium content Ponding	1.00 1.00 1.00
Kolls-----	50	Very limited Shrink-swell Low strength Depth to saturated zone Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Too clayey Cutbanks cave Ponding	1.00 1.00 1.00 1.00	Very limited Too clayey Depth to saturated zone Ponding	1.00 1.00 1.00
Ky: Kyle-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey Droughty	1.00 0.01

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LaD: Lakoma-----	60	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.63	Somewhat limited Too clayey Slope Depth to soft bedrock Cutbanks cave	0.72 0.63 0.42 0.10	Very limited Too clayey Droughty Slope Depth to bedrock	1.00 0.91 0.63 0.42
Murdo-----	25	Somewhat limited Slope	0.63	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope Droughty Gravel content	0.63 0.39 0.01
LdD: Lakoma-----	60	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.16	Somewhat limited Too clayey Depth to soft bedrock Slope Cutbanks cave	0.72 0.42 0.16 0.10	Very limited Too clayey Droughty Depth to bedrock Slope	1.00 0.91 0.42 0.16
Okaton-----	25	Very limited Shrink-swell Depth to soft bedrock Low strength Slope	1.00 1.00 1.00 0.63	Very limited Depth to soft bedrock Too clayey Slope Cutbanks cave	1.00 0.72 0.63 0.10	Very limited Too clayey Depth to bedrock Droughty Slope	1.00 1.00 1.00 0.63
LdE: Lakoma-----	50	Very limited Shrink-swell Slope Low strength	1.00 1.00 1.00	Very limited Slope Too clayey Depth to soft bedrock Cutbanks cave	1.00 0.72 0.42 0.10	Very limited Too clayey Slope Droughty Depth to bedrock	1.00 1.00 0.91 0.42
Okaton-----	35	Very limited Shrink-swell Slope Depth to soft bedrock Low strength	1.00 1.00 1.00 1.00	Very limited Depth to soft bedrock Slope Too clayey Cutbanks cave	1.00 1.00 0.72 0.10	Very limited Too clayey Depth to bedrock Slope Droughty	1.00 1.00 1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LeC: Larvie-----	72	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave Depth to soft bedrock	1.00 1.00 0.42	Very limited Too clayey Droughty Depth to bedrock	1.00 0.80 0.42
LfC: Larvie-----	60	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.37	Very limited Too clayey Cutbanks cave Depth to soft bedrock Slope	1.00 1.00 0.42 0.37	Very limited Too clayey Droughty Depth to bedrock Slope	1.00 0.80 0.42 0.37
Conata-----	25	Very limited Shrink-swell Depth to soft bedrock Low strength Slope	1.00 1.00 1.00 0.37	Very limited Depth to soft bedrock Too clayey Slope Cutbanks cave	1.00 0.50 0.37 0.10	Very limited Depth to bedrock Droughty Too clayey Slope	1.00 1.00 1.00 0.37
LhC: Larvie-----	43	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave Depth to soft bedrock	1.00 1.00 0.42	Very limited Too clayey Droughty Depth to bedrock	1.00 0.80 0.42
Hisle-----	42	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to soft bedrock Cutbanks cave	0.88 0.42 0.10	Very limited Sodium content Droughty Depth to bedrock	1.00 0.62 0.42
LmB: Larvie-----	50	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave Depth to soft bedrock	1.00 1.00 0.42	Very limited Too clayey Droughty Depth to bedrock	1.00 0.80 0.42
Metre-----	20	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave Depth to soft bedrock	1.00 1.00 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.41

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LoA: Lowry-----	85	Somewhat limited Low strength Frost action	0.78 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
LoB: Lowry-----	90	Somewhat limited Low strength Frost action	0.78 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ls: Lowry-----	70	Somewhat limited Low strength Frost action	0.78 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Slickspots, Dry----	20	Not rated		Not rated		Not rated	
MaD: Manter-----	50	Somewhat limited Slope Frost action	0.63 0.50	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope	0.63
Anselmo-----	30	Somewhat limited Slope Frost action	0.63 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
McE: Manter-----	60	Very limited Slope Frost action	1.00 0.50	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope	1.00
Sansarc-----	20	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Depth to bedrock	1.00
		Low strength Slope	1.00 1.00	Slope Cutbanks cave	1.00 0.10	Droughty Slope	1.00 1.00
MfC: Manter-----	50	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Tuthill-----	20	Not limited		Very limited Cutbanks cave	1.00	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MlB: Millboro-----	60	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Very limited Too clayey	1.00
Reliance-----	30	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
MlC: Millboro-----	60	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Very limited Too clayey	1.00
Reliance-----	30	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Mm: Minatare-----	75	Very limited Low strength Shrink-swell Frost action Depth to saturated zone	1.00 0.50 0.50 0.19	Very limited Cutbanks cave Depth to saturated zone Depth to dense layer Too clayey	1.00 1.00 0.50 0.03	Very limited Sodium content Depth to saturated zone	1.00 0.19
Mn: Bigbend-----	90	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Mo: Mosher-----	80	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.61 0.28	Very limited Sodium content	1.00
MrC: Murdo-----	70	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty Gravel content	0.39 0.01

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MsD: Murdo-----	50	Somewhat limited Slope	0.37	Very limited Cutbanks cave Slope	1.00 0.37	Somewhat limited Droughty Slope Gravel content	0.39 0.37 0.01
Lakoma-----	30	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.37	Somewhat limited Too clayey Depth to soft bedrock Slope Cutbanks cave	0.72 0.42 0.37 0.10	Very limited Too clayey Droughty Depth to bedrock Slope	1.00 0.91 0.42 0.37
MuD: Murdo-----	60	Somewhat limited Slope	0.63	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope Droughty Gravel content	0.63 0.39 0.01
Schamber-----	30	Somewhat limited Slope	0.63	Very limited Cutbanks cave Slope	1.00 0.63	Very limited Droughty Slope Gravel content	1.00 0.63 0.38
NlC: Norrest-----	72	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Depth to bedrock	0.42
Nm: Norrest-----	65	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Depth to bedrock	0.42
Badland-----	20	Not rated		Not rated		Not rated	
NoA: Norrest-----	60	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Depth to bedrock	0.42

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Blackpipe-----	25	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Depth to soft bedrock Cutbanks cave Too clayey	0.42 0.10 0.03	Somewhat limited Depth to bedrock	0.42
NoB: Norrest-----	65	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Depth to bedrock	0.42
Blackpipe-----	15	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Depth to soft bedrock Cutbanks cave Too clayey	0.42 0.10 0.03	Somewhat limited Depth to bedrock	0.42
NrC: Norrest-----	55	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Depth to bedrock	0.42
Cedar Butte-----	30	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey	1.00 0.72	Somewhat limited Droughty	0.04
NsC: Norrest-----	60	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Depth to bedrock	0.42
Imlay-----	30	Somewhat limited Depth to soft bedrock	1.00	Very limited Depth to soft bedrock Cutbanks cave	1.00 0.10	Very limited Depth to bedrock Droughty	1.00 1.00
NsD: Norrest-----	60	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.63	Somewhat limited Slope Depth to soft bedrock Cutbanks cave	0.63 0.42 0.10	Somewhat limited Slope Depth to bedrock	0.63 0.42

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Imlay-----	30	Somewhat limited Depth to soft bedrock Slope	1.00 0.63	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 0.63 0.10	Very limited Depth to bedrock Droughty Slope	1.00 1.00 0.63
NtB: Norrest-----	45	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Depth to bedrock	0.42
Okreek-----	45	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave Depth to soft bedrock	0.72 0.10 0.10	Very limited Too clayey Depth to bedrock	1.00 0.10
OcC: Opal-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.21
OgC: Opal-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.21
OlB: Opal-----	60	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.21
Kirley-----	30	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OlC: Opal-----	65	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.21
Kirley-----	25	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
OmB: Opal-----	62	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.21
Mosher-----	30	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.61 0.28	Very limited Sodium content	1.00
OpB: Opal-----	60	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.21
Promise-----	30	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
OtB: Opal-----	60	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.21
Tuthill-----	30	Not limited		Very limited Cutbanks cave	1.00	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OtD: Opal-----	60	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.16	Very limited Cutbanks cave Too clayey Depth to soft bedrock Slope	1.00 0.88 0.42 0.16	Very limited Too clayey Depth to bedrock Droughty Slope	1.00 0.42 0.21 0.16
Tuthill-----	30	Somewhat limited Slope	0.16	Very limited Cutbanks cave Slope	1.00 0.16	Somewhat limited Slope	0.16
OwC: Opal-----	70	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.21
Woodly-----	15	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ox: Orella-----	45	Very limited Shrink-swell Depth to soft bedrock Low strength	1.00 1.00 1.00	Very limited Depth to soft bedrock Too clayey Cutbanks cave	1.00 0.64 0.10	Very limited Depth to bedrock Droughty Too clayey Sodium content	1.00 1.00 1.00
Rock Outcrop, Soft--	30	Not rated		Not rated		Not rated	
PcA: Promise-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
PcB: Promise-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pd: Wendte-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to saturated zone Cutbanks cave	0.50 0.47 0.10	Very limited Too clayey	1.00
PgA: Opal-----	45	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.21
Promise-----	45	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
PgB: Opal-----	45	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.21
Promise-----	45	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
PmA: Promise-----	70	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
Mosher-----	20	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.61 0.28	Very limited Sodium content	1.00
Ps: Wendte-----	65	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to saturated zone Cutbanks cave	0.50 0.47 0.10	Very limited Too clayey	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Slickspots, Dry-----	25	Not rated		Not rated		Not rated	
ReB: Ree-----	90	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
RkA: Ree-----	43	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Keya-----	42	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
RkB: Keya-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ree-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
SaE: Samsil-----	90	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SID: Okaton-----	50	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Depth to soft bedrock	1.00	Too clayey	0.72	Depth to bedrock	1.00
		Low strength	1.00	Slope	0.63	Droughty	1.00
		Slope	0.63	Cutbanks cave	0.10	Slope	0.63
Lakoma-----	40	Very limited Shrink-swell	1.00	Somewhat limited Too clayey	0.72	Very limited Too clayey	1.00
		Low strength	1.00	Slope	0.63	Droughty	0.91
		Slope	0.63	Depth to soft bedrock	0.42	Slope	0.63
				Cutbanks cave	0.10	Depth to bedrock	0.42
SlE: Okaton-----	60	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	0.72	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
Lakoma-----	25	Very limited Shrink-swell	1.00	Very limited Slope	1.00	Very limited Too clayey	1.00
		Slope	1.00	Too clayey	0.72	Slope	1.00
		Low strength	1.00	Depth to soft bedrock	0.42	Droughty	0.91
				Cutbanks cave	0.10	Depth to bedrock	0.42
SmE: Sansarc-----	50	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
Manter-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Frost action	0.50	Cutbanks cave	1.00		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SnE: Sansarc-----	70	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
Schamber-----	20	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
				Cutbanks cave	1.00	Droughty	1.00
						Gravel content	0.38
Ss: Sansarc-----	70	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
Rock Outcrop, Soft--	20	Not rated		Not rated		Not rated	
St: Valentine-----	45	Very limited Slope	1.00	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope Droughty	1.00 0.34
Whitelake-----	30	Very limited Frost action	1.00	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Very limited Sodium content	1.00
SuA: Reliance-----	80	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SuB: Reliance-----	80	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
SuC: Reliance-----	85	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
SvE: Schamber-----	60	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Droughty Gravel content	1.00 1.00 0.38
Murdo-----	30	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Droughty Gravel content	1.00 0.39 0.01
SwE: Schamber-----	50	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Droughty Gravel content	1.00 1.00 0.38
Sansarc-----	40	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
Sy: Stirk-----	95	Very limited Shrink-swell Flooding Low strength	1.00 1.00 1.00	Very limited Too clayey Flooding Cutbanks cave	1.00 0.60 0.10	Very limited Too clayey Flooding Droughty	1.00 0.60 0.01
ThB: Tuthill-----	90	Not limited		Very limited Cutbanks cave	1.00	Not limited	
ToC: Tuthill-----	60	Not limited		Very limited Cutbanks cave	1.00	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Opal-----	20	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.21
TuB: Tuthill-----	45	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Whitelake-----	45	Very limited Frost action	1.00	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Very limited Sodium content	1.00
TwA: Tuthill-----	60	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Woodly-----	30	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
TwB: Tuthill-----	60	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Woodly-----	25	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
VaE: Valentine-----	80	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Droughty	1.00 0.34
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
Wa: Wanblee-----	50	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Droughty Depth to bedrock	0.51 0.42

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Whitelake-----	30	Very limited Frost action	1.00	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Very limited Sodium content	1.00
WbB: Wanblee-----	50	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Droughty	0.51
		Shrink-swell	0.50	Cutbanks cave	0.10	Depth to bedrock	0.42
Wortman-----	30	Somewhat limited Low strength	0.78	Somewhat limited Depth to soft bedrock	0.42	Very limited Sodium content	1.00
				Cutbanks cave	0.10	Depth to bedrock	0.42
				Too clayey	0.03		
Wd: Woodly-----	80	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
WoB: Woodly-----	65	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Opal-----	20	Very limited Shrink-swell	1.00	Very limited Cutbanks cave	1.00	Very limited Too clayey	1.00
		Low strength	1.00	Too clayey	0.88	Depth to bedrock	0.42
				Depth to soft bedrock	0.42	Droughty	0.21
Ww: Wortman-----	37	Somewhat limited Low strength	0.78	Somewhat limited Depth to soft bedrock	0.42	Very limited Sodium content	1.00
				Cutbanks cave	0.10	Depth to bedrock	0.42
				Too clayey	0.03		
Wanblee-----	36	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Droughty	0.51
				Cutbanks cave	0.10	Depth to bedrock	0.42